## COMPUTER SCIENCE - CSC

<table>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Description</th>
<th>Corequisite</th>
<th>Offered</th>
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<tr>
<td>CSC 108L</td>
<td>Introduction to Web Computing</td>
<td>1 Credit</td>
<td>Conducts computer science through web sites, web pages, and web page programming. HTML, XML, CSS and JavaScript. The history and social impact of computers, networks and the World Wide Web are included in the course.</td>
<td>Corequisite: CSC 108.</td>
<td>fall &amp; spring.</td>
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<tr>
<td>CSC 213L</td>
<td>Large Scale Programming Laboratory</td>
<td>1 Credit</td>
<td>Introduction to the design, implementation, and testing of larger software systems. Intensive instruction in Java including graphics and object-oriented design.</td>
<td>Corequisite: CSC 112 &amp; CSC 112L.</td>
<td>once a year.</td>
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<tr>
<td>CSC 310L</td>
<td>Information Organization and Processing</td>
<td>1 Credit</td>
<td>Databases, high-level organization and processing of information, SQL, and modern NoSQL systems.</td>
<td>Corequisite: CSC 112 &amp; CSC 112L.</td>
<td>once a year.</td>
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<tr>
<td>CSC 320L</td>
<td>The Social Impact of Computing</td>
<td>1 Credit</td>
<td>Examines the societal issues involved in computing such as accessibility, ethical issues, privacy, censorship, social media, and professional responsibilities. Includes applications of information literacy techniques to the major.</td>
<td>Corequisite: CSC 112 &amp; CSC 112L.</td>
<td>occasionally.</td>
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<td>CSC 330L</td>
<td>Operating System Design and Distributed Computing</td>
<td>1 Credit</td>
<td>The design of operating system software, distributed applications, client/server and other models, security issues, and parallel programming on a High Performance Computing Cluster. Taking CSC 253/L before this course is preferred.</td>
<td>Corequisite: Either minimum grade of C in CSC 112 &amp; CSC 112L or minimum grade of C in CSC 213 &amp; CSC 213L.</td>
<td>once a year.</td>
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<tr>
<td>CSC 351L</td>
<td>Comparative Programming Languages</td>
<td>1 Credit</td>
<td>A study of programming languages and their implementations. Programming in logical and functional programming languages is included.</td>
<td>Corequisite: CSC 112 &amp; CSC 112L or minimum grade of C in CSC 213 &amp; CSC 213L.</td>
<td>every fall.</td>
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CSC 301L Comparative Programming Languages Laboratory 1 Credit
Required lab for CSC 301.
Prerequisite: minimum grade of C in CSC 112 or 112L or minimum grade of C in CSC 213 & CSC 213L. Corequisite: CSC 301.
Offered: spring of odd-numbered years.

CSC 360L Intelligent Systems 3 Credits
An introduction to intelligent systems including logic and rule-based systems, machine learning, and applications of AI.
Prerequisite: completion of MAT 191 or MAT 230 and minimum grade of C in either CSC 112 & CSC 112L or CSC 213 & CSC 213L. Corequisite: CSC 360L.

CSC 360 Intelligent Systems Laboratory 1 Credit
Required lab for CSC 360.
Prerequisite: completion of MAT 191 or MAT 230 and minimum grade of C in either CSC 112 and 112L or in CSC 213 & CSC 213L. Corequisite: CSC 360L.
Offered: occasionally.

CSC 371 Cybersecurity Principles 3 Credits
This course examines the landscape and the broad areas of cybersecurity which includes topics such as: Symmetric & Public-Key Encryption, Access Control, Database Security, Malware, DoS (Denial-of-Service) Attacks, Intrusion Detection & Firewalls, Software Security, Security Management & Policies, Internet Security, and Legal & Ethical Aspects of Cybercrime. Students will also complete hands-on labs and exercises to reinforce their working knowledge of computer, network and information security topics.
Pre requisite: CSC 310 and CSC 310L; may be taken concurrently.
Corequisite: CSC 371L.
Offered: every fall.

CSC 371L Cybersecurity Principles Lab 1 Credit
Required lab for CSC 371L.
Prerequisite: CSC 310 and CSC 310L; may be taken concurrently.
Corequisite: CSC 371L.
Offered: occasionally.

CSC 380L Web Development 1 Credit
Web design principles, programming and scripting (both client-side and server-side), client/server mechanisms, search engines, and security.
Prerequisite: minimum grade of C in CSC 111 & CSC 111L. Corequisite: CSC 380L.

CSC 395L Software Engineering Lab 1 Credit
Required lab for CSC 395.
Prerequisite: minimum grade of C in CSC 213 and 213L. Corequisite: CSC 395L.

CSC 400L Special Topics in Computing 1 Credit
Current topics of interest to faculty and students. Possible topics: cryptography, advanced scripting languages, networking, etc.
Prerequisite: Minimum grade of C in CSC 281, CSC 281L, MAT 111, and in either MAT 191 or MAT 230. Corequisite: CSC 400L. Restriction: must be junior or senior Computer Science major.

CSC 400L Special Topics in Computing Laboratory 1 Credit
Required lab for CSC 400L.
Prerequisite: Minimum grade of C in CSC 281, CSC 281L, MAT 111, and in either MAT 191 or MAT 230. Corequisite: CSC 400L. Restriction: must be junior or senior Computer Science major.
Offered: every spring.

CSC 480 Research Experience 0 Credits
Research project done in conjunction with a faculty advisor.
Offered: every fall & spring.

CSC 481 Research Experience 1 Credit
Research project done in conjunction with a faculty advisor for credit.
Offered: every fall & spring.

CSC 491 Computer Science Senior Seminar 1 Credit
Topic-focused exploration involving students and faculty.
Prerequisite: permission of instructor.
Offered: occasionally.

CSC 497 Internship 1-3 Credits
Special projects for local institutions/businesses. Must be related to a specific focused task and involve a significant learning component. Internships require an application and approval by the associate dean. Credit is not given simply for a part-time job. Approved project proposal and results documentation required. Does not count as a CSC elective.
Prerequisite: permission of chair & associate dean.
Offered: occasionally.

CSC 498 Independent Project 3 Credits
A directed project course that includes research, design, and implementation of a software system.
Prerequisite: permission of instructor.
Offered: occasionally.

CSC 499 Independent Study 1-4 Credits
An in-depth study of a specific computing topic. Independent studies require an application and approval by associate dean.
Prerequisite: junior or senior standing; & permission of instructor, chair, & associate dean.
Offered: occasionally.